## #12671 store at -20C

## MEK1 (D2R10) Rabbit mAb



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<b>Applications:</b> WB, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 45	Source/Isotype: Rabbit IgG	UniProt ID: #Q02750	Entrez-Gene le 5604	
Product Usage Information	Ap	Application			Dilution		
	We	estern Blotting			1	:1000	
	Im	Immunohistochemistry (Paraffin)			1:250		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #45307.					
Specificity / Sensitivity		MEK1 (D2R1O) Rabbit mAb recognizes endogenous levels of total MEK1 protein. This antibody does not cross-react with MEK2 or other MAPK kinase proteins.					
Species predicted react based on 10 sequence homolo	0%	ine, Dog, Pig, Guin	ea Pig				
Source / Purificati	•	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human MEK1 protein.					
Background	mito ME in th grov acti cell:	MEK1 and MEK2, also called MAPK or Erk kinases, are dual-specificity protein kinases that function in a mitogen activated protein kinase cascade controlling cell growth and differentiation (1-3). Activation of MEK1 and MEK2 occurs through phosphorylation of two serine residues at positions 217 and 221, located in the activation loop of subdomain VIII, by Raf-like molecules. MEK1/2 is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx (1-4). Constitutively active forms of MEK1/2 are sufficient for the transformation of NIH/3T3 cells or the differentiation of PC-12 cells (4). MEK activates p44 and p42 MAP kinase by phosphorylating both threonine and tyrosine residues at sites located within the activation loop of kinase subdomain VIII.					
	at s	ites located within ti	ne activation loop	or kindse subdomain v	••••		

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Trademarks and Patents

**Limited Uses** 

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